

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): A disc-shaped tool comprising:

a plurality of virtual regions so formed as to be surrounded by two radius lines extending from a rotation center of a disc-shaped base metal and two concentric circles on the base metal disposed around the rotation center is disposed continuously in a circumferential direction on the disk-shaped base metal while a single slit is provided in each one of virtual regions so as to make contact with all of the two radius lines and two concentric circles,

wherein a central angle formed by the two radius lines is equal to or less than 90° ;

the virtual regions are 4 to 24 in number;

the concentric circle located in a center of an interval of the two concentric circles forming the virtual region is in a range of $0.6\ r$ to $0.8\ r$ with respect to the rotation center of the base metal when a maximum gullet bottom radius of the base metal is r ;

an overlapping of the virtual regions continuously adjoining each other is in a range of 0° to 12° in terms of the central angle around the rotation center;

a minimum neighborhood distance between the adjoining slits is equal to or more than $0.05\ r$; and

a ratio of a length of an arc of the central concentric circle extending across all of [[in]] the virtual region with respect to the interval of the two concentric circles in the virtual region is 3 to 6.

Claim 2 (Original): The disc-shaped tool according to claim 1 wherein the plurality of virtual regions has the same shape.

Claim 3 (Original): The disc-shaped tool according to claim 2 wherein the slits formed in the plurality of virtual regions is of the same shape.

Claim 4 (New): The disc-shaped tool according to claim 1 wherein 3-5 teeth are arranged at an edge of the tool within each virtual region.